expansion caused by the gases being generated in the interior of the housing **600**. The connection points **610** can include a crimped connection, a welded connection, an adhesive connection, or a combination thereof to form a hermetic seal.

[0045] FIG. **7** is simplified cross sections of an electronic device **700** in which the battery system of FIG. **3** can be incorporated according to some embodiments of the present invention to provide power to electronic components of electronic device **700**. Electronic device **700** can include battery **710** and components **730** contained in housing **740**. As non-limiting examples, electronic device **700** can be or include a smartphone, a tablet computer, a wireless mouse, a wearable electronic device such as a watch, a laptop or other electronic device. Components **730** can include electronic and structure components for use with electronic device **700**. For example, components **730** can include memory, a processor, a board with electrical contacts, or supports. Housing **740** can include one or more pieces that can be joined to protect the battery **710** and components **730**. Housing **740** can reduce or prevent moisture or particles from reaching the components **730** or battery **710**. In some embodiments, housing **740** can include a display for displaying data received from components **730**. In some embodiments, the display and/or the housing can include a surface for receiving touch inputs from a user. Battery **710** can include some or all of the components, characteristics, or aspects of the battery **300** described above. Battery **710** can include rolled electrodes **720** that can be electrically coupled to provide electrical energy to components **730**.

[0046] FIGS. **8**A and **8**B are simplified cross sections of a portion of an electronic device **800** illustrating the differences between pouch battery **100** and battery **710**. FIG. **8**A is a simplified cross section of a portion of an electronic device **800**A including the previously known pouch battery **100** of FIG. **1**. Pouch battery **100** includes electrodes **120** to provide electrical energy to components **730**. Pouch battery **100** is offset from the components **730** by gap **832**A. Gap **832**A prevents the pouch battery **100** from contacting components **730**, which can cause the components **730** to corrode. Gap **832**A results in empty space in electronic device **800**A and limits the size of the pouch battery **100**. Limiting the size of the pouch battery **100** also limits the amount of electrical energy that can be used by the components **730** in the electronic device **800**A.

[0047] FIG. **8**B is a simplified cross section of a portion of an electronic device **800**B including battery **710** of FIG. **7**. Battery **710** includes rolled electrodes **720** to provide electrical energy to components **730**. In contrast to pouch battery **100**, battery **710** does not need to be separated from components **730**. Battery **710** can contact components **730** without damaging components **730** or causing components **730** to corrode. Gap **832**B is included as a reference to illustrate the space that is saved by using battery **710** with electronic device **800**B. The space saved by using battery **710** in electronic device **800**B can be used to increase the size of rolled electrodes **720**. Increasing the size of rolled electrodes **720** increases the amount of electrical energy that can be used by components **730** in electronic device **800**B.

[0048] The various aspects, embodiments, implementations or features of the described embodiments can be used separately or in any combination. Various aspects of the described embodiments can be implemented by software, hardware or a combination of hardware and software. The described embodiments can also be embodied as computer readable code on a computer readable medium for controlling manufacturing operations or as computer readable code on a computer readable medium for controlling a manufacturing line. The computer readable medium is any data storage device that can store data which can thereafter be read by a computer system. Examples of the computer readable medium include read-only memory, random-access memory, CD-ROMs, HDDs, DVDs, magnetic tape, and optical data storage devices. The computer readable medium can also be distributed over network-coupled computer systems so that the computer readable code is stored and executed in a distributed fashion.

[0049] The foregoing description, for purposes of explanation, used specific nomenclature to provide a thorough understanding of the described embodiments. However, it will be apparent to one skilled in the art that the specific details are not required in order to practice the described embodiments. Thus, the foregoing descriptions of specific embodiments are presented for purposes of illustration and description. They are not intended to be exhaustive or to limit the described embodiments to the precise forms disclosed. It will be apparent to one of ordinary skill in the art that many modifications and variations are possible in view of the above teachings.

[0050] It is well understood that the use of personally identifiable information should follow privacy policies and practices that are generally recognized as meeting or exceeding industry or governmental requirements for maintaining the privacy of users. In particular, personally identifiable information data should be managed and handled so as to minimize risks of unintentional or unauthorized access or use, and the nature of authorized use should be clearly indicated to users.

What is claimed is:

1. A battery system for use in an electronic device comprising:

an electrically conductive housing including a first portion having a flange around its periphery and a second portion that overlaps with the first portion and is hermetically sealed to the first portion at the flange, the first and second portions combining to define an interior cavity;

an electrode assembly disposed within the interior cavity and including an anode, a cathode, and a separator between the anode and cathode; and

a connection terminal electrically coupled to the electrode assembly through an opening in the housing.

2. The battery system of claim **1**, wherein the housing and the electrode assembly are electrically coupled to a common ground.

3. The battery system of claim **1**, the housing comprising:

a first area;

sidewalls extending from the first area and forming a cavity for receiving the electrode assembly, the sidewalls having curved edges opposite the first area; and

a second area generally parallel to the first area and connectable with the curved edges of the sidewalls to form a flanged edge.

4. The battery system of claim **1**, wherein the connection terminal comprises a connection bar for coupling with the electrode assembly when the electrode assembly is disposed in the cavity.